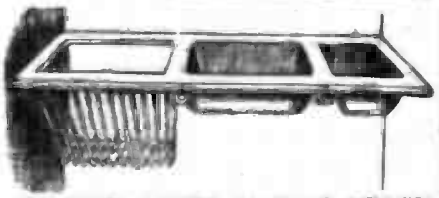
COTTAM & HALLEN, 2, WINSLEY-STREET, OXFORD-STREET, LONDON.



ENAMELLED MANGERS and STABLE FITMENTS. Registered. Economy, durability, appearance, cleanliness, comfort to the horse when feeding, and being rendered impervious to any infection by enamel, are some of the improvements of these fitments.

THE ROYAL EXHIBITION PRIZE MEDAL
WAS AWARDED TO
COTTAM AND HALLEN,
FOR
ORNAMENTAL IRON CASES;
ALSO FOR THEIR ENAMELLED
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ORNAMENTAL WROUGHT AND CAST IRON WORK OF EVERY DESCRIPTION—STAIRCASES, RAILINGS, &c.

ESTIMATES UPON APPLICATION.

A QUANTITY OF
THE AND OBTUSE-ANGLE FLAT AND ROUND IRON,
suitable for
ROOFING AND OTHER PURPOSES,
at 7l. 10s. per ton.
Mitre quality. Sections, &c. per post.

A QUANTITY OF
CAST IRON RAILING BARS,
at 6s. 6d. per cwt.
PARTICULARS BY POST.

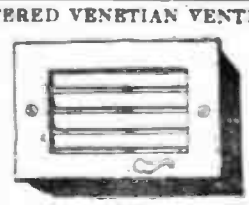
VENTILATION—PURE AIR.

Cheringham's Ventilator, for the admission of pure air through an EXTERNAL WALL.

With single pulley, from 6s. each; with sending pulley, from 8s. 6d.

These Ventilators are so arranged that the requisite quantity of air may be admitted for the due ventilation of an apartment without the slightest draught being felt by the occupants; and as they are placed in the external wall, their action is not impeded when the house is closed for the evening, which time is constant supply of fresh air is most required.—HAYWARD, BROTHERS, sole Manufacturers, 108, Blackfriars-road, and 115, Union-street, Borough; and of all respectable ironmongers, builders, &c.

REGISTERED VENETIAN VENTILATOR,



ALSO
DR. ARNOTT'S VENTILATING CHIMNEY VALVES,
at the following reduced prices:—

No. 1, Plain Valve	3s. 6d.
No. 2, Bronzed and leathered	4s. 6d.
No. 3, Bronzed and leathered, with trellis-work	6s. 6d.
No. 4, White and gold lines, with trellis-work	8s. 6d.

PATENT SPINDLED CHINA MORTISE FURNITURE

White	1s. 6d. per set.
Black	1s 6d. "
White and gold	2s. 6d. "

J. H. BOURNE and CO., Ironmongery, Brass Foundry, Hall and Tool Warehouse, 14, Southampton-street, Clare-market, London. Established nearly 200 years for the sale of goods from the best manufactories at the lowest prices.

BAD VENTILATION.—In the year 1841, Mr. W. H. PHILLIPS, Engineer, gave evidence before the Select Committee of the House of Lords, declaring the certain failure of the "Hoof" system of Ventilation, and offering a system certain of success. In further evidence, that Mr. Phillips foresaw the inevitable failure of the steam plan before the foundation stone was laid, see his letter, headed "Ventilation of the New Houses." Times, 23rd Sept. 1841, containing these words:—"Seriously, it is a thing to be regretted that an experimental blunder should so far have prevailed some members of the late Parliament as to induce them to wish the same error against nature to be established in the foundations of the New Houses of Parliament for a perpetuity."—16, Essex-street, Strand.

BAD VENTILATION.—Some 100,000 tall pipes, cowls, and other signs of bad ventilation of the dwelling-houses of London, prove the necessity of a standard principle for constructing chimneys, for there is not to be found in all London a single street or row of houses free from noxious smoke arising from bad ventilation, excepting those built upon the simple plan patented by the inventor, W. H. PHILLIPS.

Note.—Whole rows and streets of first, second, and third class houses built upon the patent plan are perfectly ventilated, and are quite free from the smoke nuisance, quite free also from metal shafts cowls, or other signs of a troubled house. For licenses, &c. apply to W. H. PHILLIPS and Co. Patentees, 16, Essex-street, Strand.

NOTICE.—It having come to our knowledge that divers persons have at various times constructed Chimneys upon the plan for which Royal Letters Patent were granted to us in the year 1841, we hereby give notice that such trespasses will be treated as INFRINGEMENTS of our PATENT RIGHTS, and that damages will be claimed as by law allowed.
W. H. PHILLIPS and CO. 16, Essex-street, Strand.

HEATING BY HOT WATER.—J. JONES, Iron Merchant, has always a great variety of CONICAL and SADDLE BOILERS in STOCK: also fire and furnace bars, ornamental and plain supply cisterns, double doors and frames, furnace grates, cast doors for the same, hot water pipes, elbows, bends, syphons, throttle valves, stop cocks, flange and socket elbows, &c.; also, trough pipes. Drawings and prices of the above, on application to J. JONES, Iron bridge wharf, No. 6, Bankside, London, near the Southwark-iron bridge.

HOT WATER APPARATUS.—The attention of Architects, Builders, and others, is respectfully requested to BENJAMIN FOWLER'S superior method of heating churches and chapels, halls, staircases, conservatories, forcing and greenhouses, manufactories and warehouses, kilns, rooms for drying timber, &c. and every variety of purpose for which artificial heat is required. Within the last twenty years some hundreds of buildings have been heated upon this plan, and the parties for whom they were executed are constantly expressing their satisfaction, also their willingness to vouch for their efficiency.
BENJAMIN FOWLER, Whitefriar-street.

STEPHENSON and PEILL, 61, Gracechurch-street, London, and 17, New Park-street, Southwark, Manufacturers of COPPER CYLINDRICAL and improved CONICAL IRON BOILERS, and Conservatory and Hot-house Builders, either in wood or iron, respectfully call the attention of the nobility, gentry, and surveyors to their simple but efficacious method of warming horticultural and other buildings by Hot Water. From the extensive works they have executed references of the highest respectability can be given, and full particulars furnished on application.

CALORIFERE.—Gold Medal, Paris Exhibition, 1849.—A fire can be kept from warmed by hot air only at 60 degrees Fahrenheit, in burning 10 lbs. of coal per hour. The most complete safety against fire, the healthiest and most powerful ventilation, without any machinery, are obtained by BOILEVE'S PATENT CALORIFERE. The constant supply of fresh air carries out instantaneously, by a new well improved process, all damp or vitiated air, that makes it very desirable for churches, schools, theatres, hospitals, manufactories, clubs, houses of any size, laundries, and green houses. The Calorifere has been adopted by his Grace the Duke of Bedford, at Woburn Abbey, by several architects, and it may be seen in operation in many places in London and country.—Apply, per post, to T. BOILEVE, French Engineer, 147, Fenchurch-street, London.

THE AERONOMIC SYSTEM of VENTILATION upon natural principles, tested by fifty years of practical experience, is now applied, without machinery, to Chimneys, Stove-grates, fire-places, &c.

Upwards of 4,000 Terminals for Smoke and Ventilation made to the accompanying pattern and on the above principles have been successfully applied by architects of the highest eminence.

They are ornamental, cheaply fixed, durable, and easily swept. The size for 14 inches by 9 inches flue, price 30s. Flues not requiring the convert and coping course 20s.

APPLY AT THE
OFFICE OF THE AERONOMIC ASSOCIATION,
UPPER DORSET-STREET, BRYANSTONE SQUARE.

Ample directions for fixing; and every one may adopt this admirable invention without sending for a chimney doctor.

SEE THE AERONOMIC REPORT.

A. VARNHAM, 41, BEDFORD-STREET, STRAND.

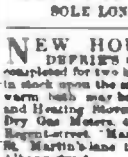
PRIZE MEDAL of the GREAT EXHIBITION awarded to PIERCE'S UNIVERSAL FIRE-LUMP GRATES, and IMPROVED COTTAGER'S GRATES.—Manufactory and Warehouse, 5, Jermyn-street, Regent-street.

The Best and Cheapest Grates for all useful purposes are PIERCE'S COTTAGE GRATES, made entirely of the best Fire Lump, in one entire piece, and having strong octagon bars, with bottom complete, ready for fixing.

PIERCE strongly recommends these Grates to public notice for Cottages, Lodges, Almshouses, Farmhouses, Servants' and other Bedrooms, Offices, &c. as from their durability and economy, they possess many advantages over the common bright iron grates that have been hitherto made use of in cottages and bedrooms, the most important of which consist in their comfort and usefulness, combined with the great strength and durability of the material (the best and purest fire-lump), producing a bright and cheerful fire, without waste from either ashes or cinders, and will burn wood, coals, coke, or peat. Economical in cost; and, from their construction, requiring but a very small quantity of fuel; giving off a large portion of radiant warmth into the room, and admirably adapted for cooking, having ovens and safe bars, which can be enlarged by the addition of the double top bar, to hold pots or other vessels when boiling. In several sizes, from 9s to 18 inches wide, at various prices from 11s. 6d. to 35s.

PIERCE'S ECONOMICAL RADIATING STOVE-GRATE MANUFACTORY, 5, JERMYN-STREET, REGENT-STREET.
SOLE LONDON AGENT for NICHOLSON'S COTTAGER'S RANGES, ANGLO-GERMAN COOKING-STOVE, &c.

NEW HOUSES OF PARLIAMENT.—DEPRIES'S GAS STOVES, RANGES, and BATHS, just completed for two kitchens in the above building.—A great variety in stock upon the same principle. Gas Baths from 7l. by which a warm bath may be obtained for three-halfpence. Gas Cooking and Heating Stoves for all classes, from 1l. Deprie's celebrated Dry Gas Meters, 45,000 in use. Testimonials at the office, 168, Regent-street. Manufactories removed from Hampstead-road and St. Martin's-lane to more extensive premises, New road, near Albany-street.



TOZER'S PATENT VENTILATING GAS STOVE, for halls, shops, offices, &c. price 35s. This stove is constructed on the principle of ventilation, combined with economy, the consumption of gas being only 1d. for twelve hours. The absence of all smoke and dust particularly recommends it for the use of libraries, or wherever warmth is required. Also,
TOZER'S PATENT SUN STOVE,
to burn coke, suitable for village churches, &c.
T. TOZER,
Ironmonger and Manufacturer,
35, Dean-street, Soho.

CLARK and HUNT'S IRONMONGERY, STOVE and METAL WAREHOUSE, 120, Shoreditch.

Improved Self-setting Cottage Ranges,	20	23	24	28	33 inch
with Large Oven and Boiler	24	26	28	32	36
Best Self-setting Ranges, with Oven and	24	26	28	32	43 inch.
Back Boiler, Bright Wrought Bars	55s.	58s.	65s.	75s.	85s.

Strong Kitchen Stoves, with Extra Back and Solid Bars, per inch, 8d.

Register Stoves, with Solid Bars, per inch, 5d. Best Solar ditto with Fire Brick Back, per inch, 10d.

Bright Stoves, with Two Pipes, 30s. to 100s. each.

Cast Main-water Pipe	2	3 inch.
	9d.	10d. 1s. per yard.
Cast Gutters—4 inch, 6d. per yard.		
O. G. Gutters	4	4½ inch.
	11d.	1s. per yard.

In consequence of the advance of Iron, a new List of Sizes is preparing.

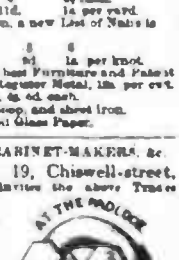
Patent Line	2	3	4	5	6
	4½d.	5d.	7½d.	9d.	1s. per knot.

6 inch Bolts 8d. Wood Mortice, with best Furniture and Fahrist Spindles, 8s. each. Light Elliptic and Register Stoves, 15s. per cwt. Dr. Arnott's Ventilators, 4s. 6d. each.

An extensive stock of bar, rod, hoop, and sheet iron.
Clark and Hunt's Improved Glass Paper.

TO BUILDERS, CARPENTERS, CABINET-MAKERS, &c.

JOHN DALE, 18 and 19, Chiswell-street, Finsbury-square, respectfully invites the above Trades to the inspection of his immense stock of Ironmongery, which cannot be surpassed in variety, quality, and cheapness by any house in London.



Elliptic Stoves, double backs,
3½d. per inch, and upwards.
Register Stoves, 4½d. 5d. 6d. 6½d. 7½d. per inch.

Self-setting Ranges, with circular ovens and back boilers, best wrought bars and bright fittings:—

2 ft., 2l. 15s.; 3 ft. 6 in., 3l. 5s.; 4 ft., 3l. 15s.

3-feet Cottage Ranges, with ovens and back boilers, 30s. each.
3-feet self-setting ditto, ditto, 35s. each.

Air Bricks, 2s. 3d. per doz.
Best Town Glue, 10s. Ditto, Scotch, 12s. per cwt.
Best Patent Sash Line.

1	2	4	6	
4s.	4s. 6d.	5s. 6d.	7s.	9s. 14s. 6d. per gross.

And every material required in the building, bell-hanging, upholstery, and brass-foundry trades on the most reasonable terms.

List of Prices had on application at the Warehouse, or by letter prepaid.

BUILDERS, Contractors, Carpenters, and others are invited to inspect the stock of NAILS, TOOLS, BRASS, AND GENERAL IRONMONGERY at PEILL and TYDALL'S,
Nos. 5 and 6, BROAD-STREET, BLOOMSBURY.
The prices will be found the lowest, and the stock one of the largest in the trade. A price list sent on application.

NAILS and IRONMONGERY, from BIRMINGHAM direct.
Builders, Contractors, and Others, supplied with Nails, Iron, and Ironmongery of every description, at the
LOWEST BIRMINGHAM PRICES
a complete List of which
will be forwarded upon application.
FREDERICK SMITH,
Nail Manufacturer and General Dealer,
Regent-parade, BIRMINGHAM;
or at 16, Gresham-street, LONDON.

PATENT WROUGHT NAILS.—These NAILS are submitted to the notice of Builders, Contractors, and Ship-builders as being superior to any others, and cheaper. They have the toughness of the best hand-made nails, with the greater uniformity of make. The flat-pointed rose nails are particularly recommended wherever oak or other hard wood is used: being perfectly chisel-pointed, they require no boring, and will drive into the hardest wood without splitting it, and their heads, being very strong do not fly off. The patent wrought nails may be had of all ironmongers. A stock of them is kept at the warehouses of the agents, HODGE and GEORGE, Wholesale Ironmongers, 17, Borough, London.

CAST-IRON PIPE and GUTTER.

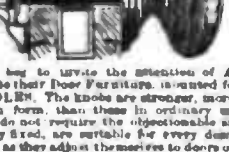
Rain Water Pipe	1½d.	1¾d.	12d. per yard.
	2	2½	3 inches.
Half-round Gutter	7d.	7½d.	9½d. per yard.
	3½	4	4½ inches.
OG. Gutter		11d.	13d. per yard.
		4	4½ inches.

C. and J. P. GARNER, 77, Queen-street, Cheapside.

AUSTIN'S IMPERIAL
PATENT SASH and BLIND LINE,
can be obtained of all
ROPEMAKERS, IRONMONGERS, FACTORS AND WHOLESALE HOUSES IN TOWN OR COUNTRY.

By her Majesty's Royal Letters Patent.

PITT'S PATENT SELF-ADJUSTING DOOR KNOBS AND LOOSE SPINDLES.



HART and SON beg to invite the attention of Architects, Builders, and others, to their Door Furniture, mounted for PITT'S PATENTED "PINDLES." The knobs are stronger, more durable, and more elegant in form, than those in ordinary use, as the spindles, being loose, do not require the objectionable side screw. They are more readily fixed, are suitable for every description of lock now in use, and, as they adjust themselves to doors of different thicknesses, without alteration, are particularly adapted for the country or for exportation. They are made (to suit every style of decoration) in China, crystal, amber, and opal glass, buffalo, horn, ivory, ebony, brass, &c. on escutcheon finger-plates, bell-pulls, levers, &c.—May be obtained of all Ironmongers; or of the Proprietors and Manufacturers, HART and SON, Wholesale and Manufacturing Ironmongers, 28, 34, and 35, Wych-street, Strand, London.

GEORGE HART, 253, STRAND,
Near Temple Bar,
PROPRIETOR AND MANUFACTURER
of
PITT'S PATENT SELF-ADJUSTING SPINDLED DOOR FURNITURE.

GEORGE HART has improved the quality and reduced the price. List may be had on application.

White China	2s. 6d. per set.
Brass ditto	2s. 6d. "

Subject to the usual discount.

Post office orders payable at 253, Strand, to GEORGE HART, Proprietor and Manufacturer.
HART'S, 253, STRAND.

COLLINGE'S PATENT HINGES.—Sole Manufacturers, CHARLES COLLINGE and CO., 44, 45, Bridge-road, Lambeth, where a great variety are always on view for church, park, railroad, coachhouse, and other gates and doors of large and small dimensions, a gate of a ton weight moving with these hinges as easily as a wicket. Ornamental hinges adapted for drawing-rooms, &c.; doors fitted with them may be removed and replaced in an instant. Rising and double-acting spring hinges, and superior sale fastenings, at moderate prices. None genuine unless marked "Charles Collinge, Patent, Lambeth." Plain and ornamental cast and wrought iron work, for building and other purposes. Engines, machinery, patent sale irons, sugar-mills, &c.

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